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ABSTRACT

This module on special attachments, one in a series dealing with industrial sewing machines, their attachments, and operation, covers four topics: gauges; cording attachment; zipper foot; and hemming, shirring, and binding. For each topic these components are provided: an introduction, directions, an objective, learning activities, student information, a student self-check, and a check-out activity. An instructor's final checklist for evaluating the student's performance is attached. (YLB)

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ED233206

SPECIAL ATTACHMENTS

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Office of Vocational Education
Dr. Moody M. Oswald, Jr., Director

Vocational Curriculum Development Section
Dr. Robert T. Benson, Chief Supervisor

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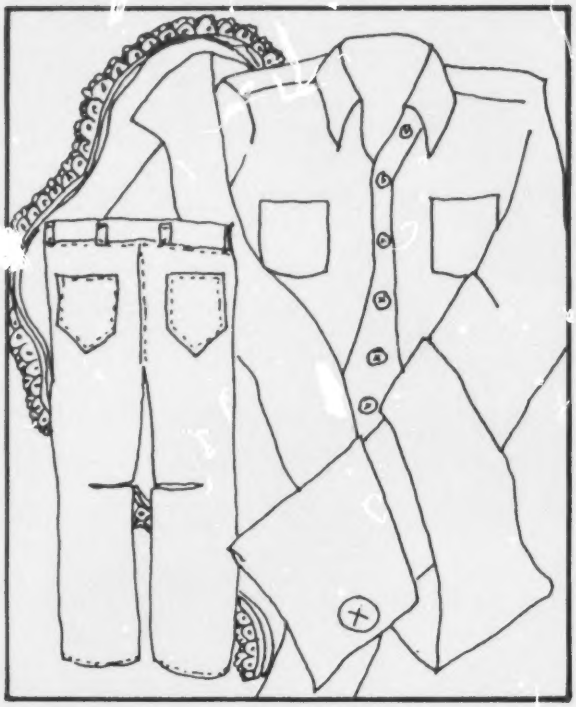
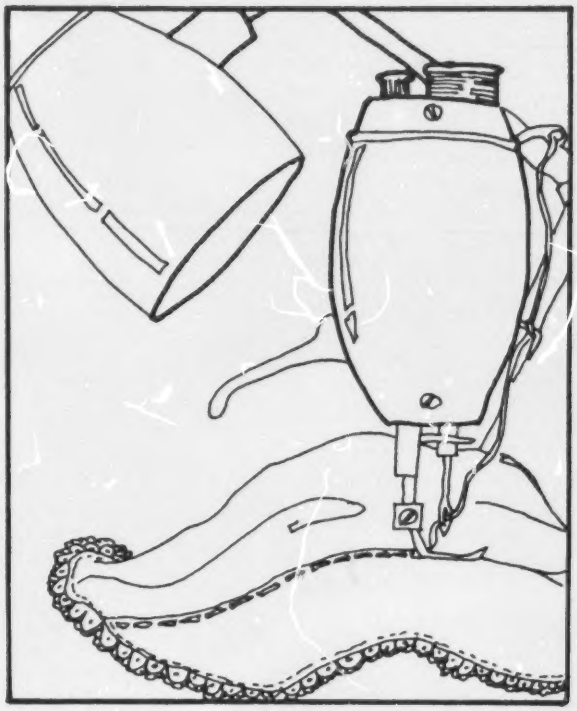
gauges





USING SPECIAL ATTACHMENTS
(Gauges)

INTRODUCTION

Special attachments which are not a part of the industrial sewing machine can speed up production. In this module you will learn about using the cloverleaf gauge, the "T" gauge, and the swing gauge.

DIRECTIONS

Read the Objective. If you think you can accomplish this Objective now, turn to the Check-Out Activity and follow the instructions.

If you feel you are not able to accomplish this Objective now, look at the Learning Activities. Begin the Learning Activities and as soon as you feel you are ready, turn to the Check-Out Activity and follow the instructions.

OBJECTIVE

Given a single needle lockstitch machine, screwdriver, cloth, scraps, and an assortment of gauges, attach and make samples using gauges. All items on the Instructor's Checklist must be rated acceptable.

LEARNING ACTIVITIES

1. READ Student Information, USING WIDTH GAUGES IN INDUSTRIAL OPERATIONS.

2. VIEW a teacher demonstration on each gauge.

3. READ Student Information, STEPS IN USING A "T" GAUGE. Follow directions and complete each step before going on to the next one. If you should have a problem, ask your instructor. Practice using the "T" gauge until you have a seam with uniform width and free of wrinkles and twists.

4. READ Student Information, STEPS IN USING A SWING GAUGE. Follow directions and complete each step before going on to the next one. If you should have a problem, ask your instructor for assistance. Practice using the swing gauge until seams and reseams are the same as gauge settings and are uniform throughout the seam.

5. READ Student Information, STEPS IN USING A CLOVERLEAF GAUGE. Follow directions and complete each step before going on to the next one. If you should have a problem, ask your instructor for assistance. Practice making curved seams until you are able to stitch seams of uniform width.

6. COMPLETE Student Self-Check, USING WIDTH GAUGES.

7. TURN to the Check-Out Activity and follow the instructions.

STUDENT INFORMATION

Using Width Gauges In Industrial Operations

A type of attachment which is simple to use and very helpful to the industrial sewing machine operator is the width gauge. This attachment makes it possible to sew a seam at a specified width from the edge of the cloth.

The "T" gauge (Figure 1), is one type of width gauge which serves as a guide to line up the edge of the fabric. The operator must feed the fabric into the machine so that the edge is aligned with the wall of the gauge. If the operator feeds too much fabric and the edge goes beyond the wall of the gauge, wrinkles and twists in the fabric may result. When the fabric is fed short of the wall of the gauge, too little material will be available to turn under and the fabric will have a raw edge when stitched.

Figure 1

The cloverleaf (three-cornered) gauge (Figure 2) is used for a curved seam allowance as well as a straight seam. Examples of curved seams are at the bust line and sleeving.

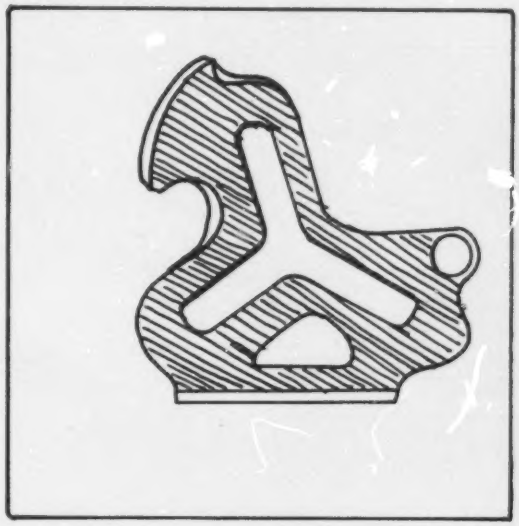


Figure 2

The swing gauge (Figure 3) is used when one or more seam allowances are used. The gauge's front wall can be swung away by the operator providing a second margin setting on the fixed wall or arm of the gauge.

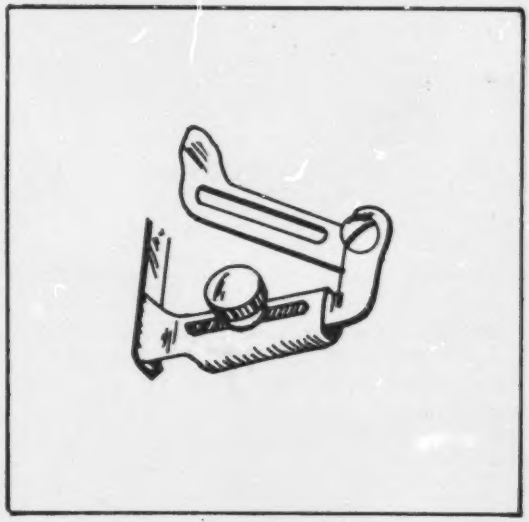


Figure 3

If the appropriate gauge is not available, use sight lines to determine width of seam.

1/8" equals *inside* edge of standard presser foot

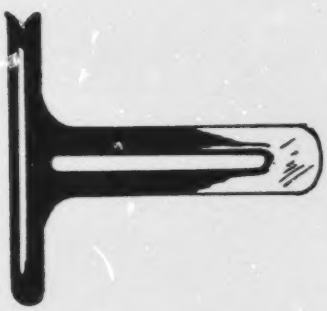
1/4" equals *outside* edge of standard presser foot

1/2" equals *outside* edge of throat plate screw

STUDENT INFORMATION

Steps In Using A "T" Gauge

1. Secure a bundle of strips and a "T" gauge with thumbscrew.
2. Attach the gauge to the single needle lockstitch machine, setting it for a 1/2 inch (1.28 cm) seam.
3. Stitch two plies of cloth together. Be sure that the edges of the fabric are even with the wall of the gauge.
4. Check the seam with a ruler to see that proper feeding of the material is maintained.
5. Practice using the "T" gauge until the seam is the same for the entire length of the strips being seamed.



STUDENT INFORMATION

Steps In Using A Swing Gauge

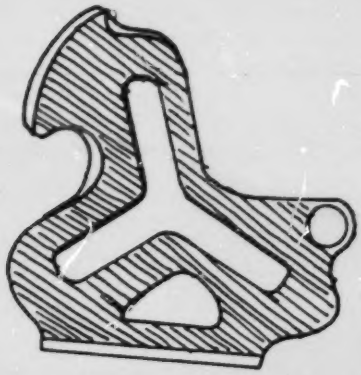
1. Secure a bundle of cloth with material cut either 2 inches x 6 inches (5.08 cm x 15.24 cm) or 4 inches x 12 inches (10.16 cm x 30.48 cm).
2. Use a screwdriver to attach a swing gauge to a single needle lockstitch machine.
3. Make the first gauge setting at 1/4 inch (.64 cm) from the needle. Set second arm of gauge 1/2 inch (I.28 cm) from the needle.
4. Stitch two plies of strips using the first setting (1/4 inch or .64 cm). Swing the arm of the gauge away and stitch another seam in the same strips, using the second setting.
5. Check the seam with a ruler to see if the settings were accurate. If not, check the gauge and repeat Step 4.

STUDENT INFORMATION

Steps In Using A Cloverleaf Gauge

1. Secure a bundle of cloth with curved seams.
2. Use a screwdriver to attach the gauge for stitching curved seams to the bed of the single needle lockstitch machine.
3. Join two pieces of fabric using a curved stitch setting. Seam the two plies. Check the seam width with a ruler to see if the seam depth is uniform throughout.

4. Practice using the curved seam guide until a uniform seam width is achieved.



CHECK-OUT ACTIVITY

The statement below explains the activity you must complete in order to finish this module. After you go through the activity, your instructor will rate your performance using the Instructor's Final Checklist, USING SPECIAL ATTACHMENTS.

Your instructor will provide you with a single needle lockstitch machine, screwdriver, cloth, snips, and an assortment of attachments. Attach and make samples using gauge attachments.

STUDENT SELF-CHECK

Using Width Gauges

Write the answers to the following statements on a separate sheet of paper.

1. Only one screw is used to attach the swing gauge. (True or false)

2. Never use the swing gauge to topstitch. (True or false)

3. If material is improperly fed through the "T" gauge, wrinkles and puckers will appear. (True or false)

4. The cloverleaf gauge is used for curved seams. (True or false)

Student _____

Date _____

Instructor's Final Checklist

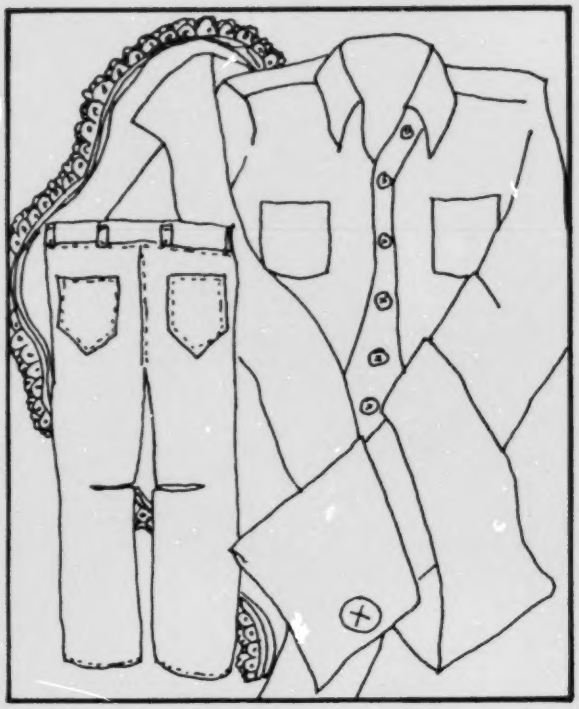
Check the student's performance in the following elements of using special attachments.

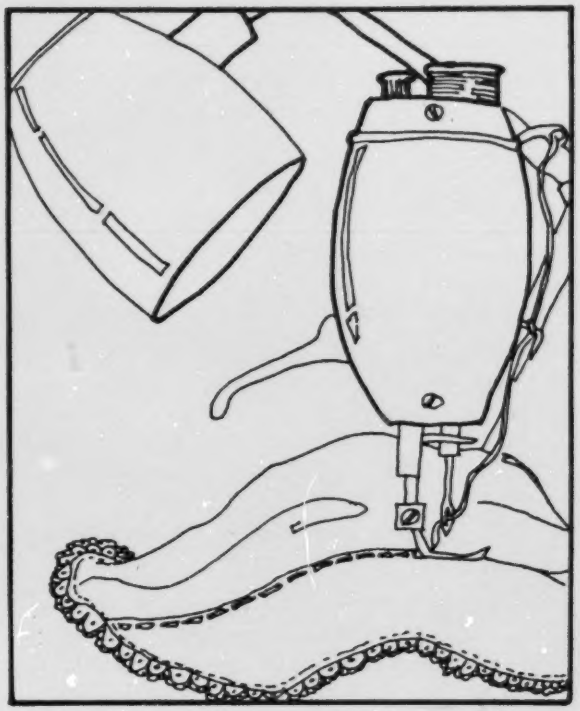
Place an X in the appropriate box indicating not accomplished, partially accomplished, or fully accomplished. If, because of special circumstances, the item was impossible to complete, place an X in the "Not Applicable" box.

Performance Level: All items must receive a rating of FULLY ACCOMPLISHED (or Not Applicable). If any items are rated Not Accomplished or Partially Accomplished, the student and instructor will discuss this and decide which learning activities must be repeated.

	Student Performance			
	Not Applicable	Not Accomplished	Partially Accomplished	Fully Accomplished
The student used width gauge attachments.				
a. "T" Gauge				
1. Seam was uniform in width.	( )	( )	( )	( )
2. Fabric was free of wrinkles and twists.	( )	( )	( )	( )
b. Swing Gauge				
1. Seam was uniform in width.	( )	( )	( )	( )
2. Reseam was uniform in width.	( )	( )	( )	( )
c. Cloverleaf Gauge				
1. Curved seam was uniform in width.	( )	( )	( )	( )

cording attachment





USING SPECIAL ATTACHMENTS
(Cording Foot)

INTRODUCTION

Special attachments which are not a part of the industrial sewing machine can speed up production. In this module you will learn about using a special attachment called the cording foot.

DIRECTIONS

Read the Objective. If you think you can accomplish this Objective now, turn to the Check-Out Activity and follow the instructions.

If you feel you are not able to accomplish this Objective now, look at the Learning Activity. Begin the Learning Activity and as soon as you feel you are ready, turn to the Check-Out Activity and follow the instructions.

OBJECTIVE

Given a single needle lockstitch machine, screwdriver, cloth, snips, and an assortment of attachments, make samples using the cording foot attachment. All items on the Instructor's Checklist must be rated acceptable.

LEARNING ACTIVITIES

1. READ Student Information, THE CORDING FOOT. Follow directions and complete each step before going on to the next one. If you should have a problem, ask your instructor for assistance. Practice making a corded edge until the stitching is uniform with no stitches in the cord.

2. VIEW a teacher demonstration on using the cording foot attachment.

3. COMPLETE Student Self-Check, USING THE CORDING FOOT.

4. TURN to the Check-Out Activity and follow the instructions.

STUDENT INFORMATION

The Cording Foot

The cording foot is designed to allow the fabric to fold around the cording. The operator should be able to stitch very close to the cording. Cording is frequently used around pockets and lapels as a decorative touch.

Follow these steps when making a corded edge.

1. You will need cord, a strip of cloth preferably cut on the bias, two pieces of cloth simulating a lapel or pocket edge, cording foot, single needle lockstitch machine, and thread.

2. Place this attachment on the machine. A cording foot is shown in Figure 4.

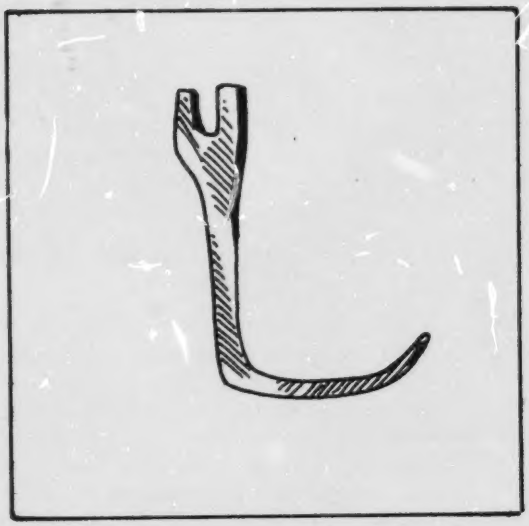


Figure 4

3. Place the cord in the bias strip and stitch close but not to the cord. The cording foot allows you to do this (Figure 5).

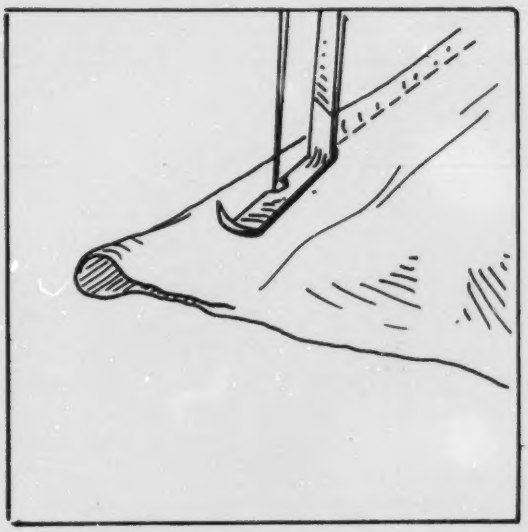


Figure 5

4. Place the cord you have just sewn between two pieces of fabric. The edge of the cording fabric should be even with the edges of the two plies of cloth. Stitch along cording through the top layer of cloth, the cording in the middle and the bottom layer of cloth.

5. Turn the seam inside out and you will have a corded edge which is similar to a corded pocket.

STUDENT SELF-CHECK

Using the Cording Foot

Write the answers to the following statements on a separate sheet of paper.

1. Cording is frequently used around pockets and lapels as a decorative finish. (True or false)

2. When sewing the cording in a bias strip, the stitching is done on top of the cording. (True or false)

3. The cording foot fits on the single needle lockstitch machine. (True or false)

CHECK-OUT ACTIVITY

The statement below explains the activity you must complete in order to finish this module. After you go through the activity, your instructor will rate your performance using the Instructor's Final Checklist, USING SPECIAL ATTACHMENTS (Cording Foot).

Your instructor will provide you with a single needle lockstitch machine, screwdriver, cloth, snips, and an assortment of attachments. Attach and make samples using the cording attachment.

Student _____

Date _____

Instructor's Final Checklist

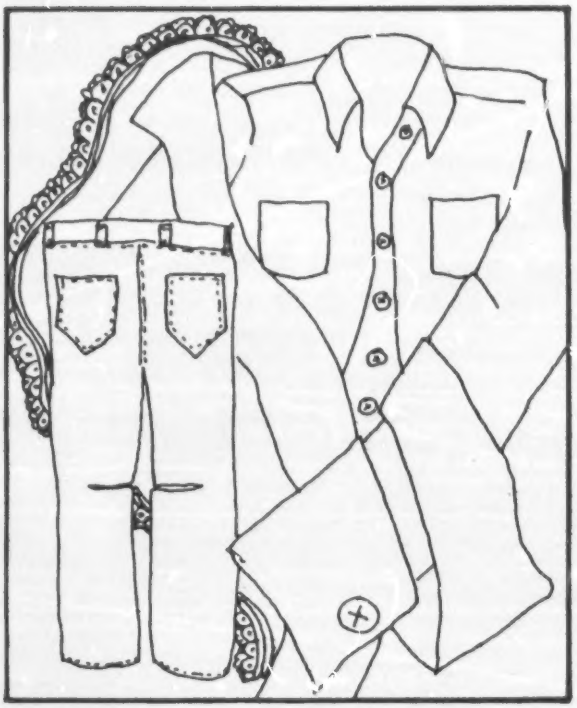
Check the student's performance in the following elements of using special attachments (cording foot).

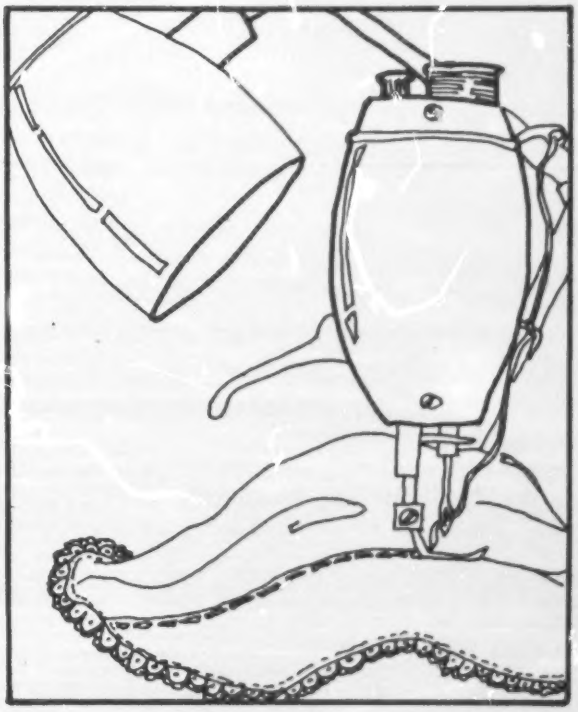
Place an X in the appropriate box indicating not accomplished, partially accomplished, or fully accomplished. If, because of special circumstances, the item was impossible to complete, place an X in the "Not Applicable" box.

Performance Level: All items must receive a rating of FULLY ACCOMPLISHED (or Not Applicable). If any items are rated Not Accomplished or Partially Accomplished, the student and instructor will discuss this and decide which learning activities must be repeated.

	Student Performance			
	Not Applicable	Not Accomplished	Partially Accomplished	Fully Accomplished
The student:				
a. Made a corded edge with the cording foot.	( )	( )	( )	( )
b. Had uniformity in stitching.	( )	( )	( )	( )
c. Stitched without visible stitches in cord.	( )	( )	( )	( )

zipper foot





USING SPECIAL ATTACHMENTS
(Zipper Foot)

INTRODUCTION

Special attachments which are not a part of the industrial sewing machine can speed up production. In this module you will learn about using a special attachment called the zipper foot.

DIRECTIONS

Read the Objective. If you think you can accomplish this Objective now, turn to the Check-Out Activity and follow the instructions.

If you feel you are not able to accomplish this Objective now, look at the Learning Activities. Begin the Learning Activities and as soon as you feel you are ready, turn to the Check-Out Activity and follow the instructions.

OBJECTIVE

Given a single needle lockstitch machine, screwdriver, cloth, snips, and an assortment of attachments, make samples using the zipper foot attachment. All items on the Instructor's Checklist must be rated acceptable.

LEARNING ACTIVITIES

1. READ Student Information, ZIPPER FOOT ATTACHMENTS. Follow directions and complete each step before going on to the next one. If you should have a problem, ask your instructor for assistance. Practice setting zippers until they are stitched straight, free of puckers, and covered by material.

2. VIEW a teacher demonstration on attaching the zipper foot.

3. COMPLETE Student Self-Check, USING THE ZIPPER FOOT ATTACHMENT.

4. TURN to the Check-Out Activity and follow the instructions.

STUDENT INFORMATION

Zipper Foot Attachments

There are different types of zipper foot attachments used for various operations and machines. The trim prong zipper foot has narrow, even sides. An example of this type of attachment is the kissing zipper foot (Figure 6).

Figure 6

Hinged zipper feet are shown in Figure 7. The foot on the left is a double toe, while the foot on the right is an example of a foot having a closed split.

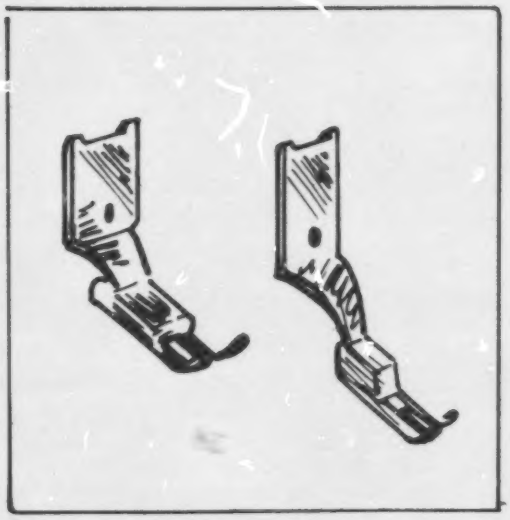


Figure 7

The invisible hinged zipper foot is illustrated in Figure 8.

Figure 8

In some instances, the cording foot is used to set zippers. In industrial sewing operations, the type of attachment to be used in setting a zipper will be identified in the job specifications.

Follow these steps when setting a zipper.

1. Obtain a left zipper foot, screwdriver, simulated garment for the zipper setting, zipper, serger (overlock) machine, thread, and snips.

2. Stitch the center seam leaving an opening at the neckline the length of the zipper (Figure 9).

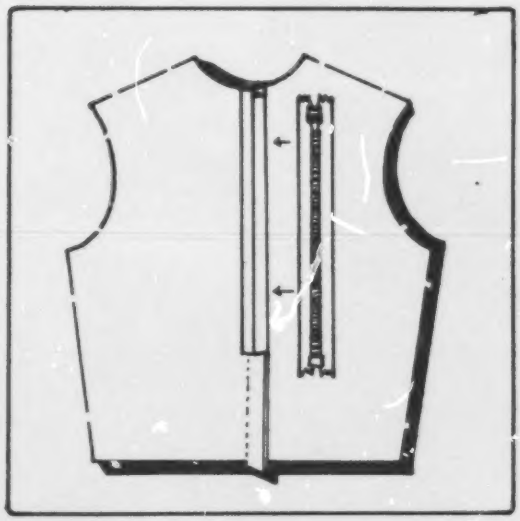


Figure 9

3. Remove presser foot and replace with zipper foot.

4. Place garment on your machine, right side up.

5. Lay zipper down with the right side toward the right side of cloth. Align zipper with opening.

6. Sew along the right side of the zipper. The zipper foot will ride along the side of the zipper without going over the teeth. Sew off the end of the zipper.

7. Remove garment and zip up zipper about 2 inches (5.08 cm) from the top.

8. Turn under 5/8 inch (1.58 cm) seam and topstitch down to zipper head.

9. Zip up zipper and topstitch down to bottom of the zipper. Turn and walk across the bottom, locking the stitch.

STUDENT SELF-CHECK

Using the Zipper Foot Attachment

Write the answers to the following statements on a separate sheet of paper.

1. An example of the trim prong zipper foot with narrow even sides is the kissing zipper foot. (True or false)

2. The type of zipper attachment is determined by the job specifications. (True or false)

3. In setting a zipper, the zipper foot will ride on the teeth of the zipper. (True or false)

CHECK-OUT ACTIVITY

The statement below explains the activity you must complete in order to finish this module. After you go through the activity, your instructor will rate your performance using the Instructor's Final Checklist, USING SPECIAL ATTACHMENTS (Zipper Foot).

Your instructor will provide you with a single needle lockstitch machine, screwdriver cloth, snips, and an assortment of attachments. Attach and make samples using the zipper foot attachment.

Student _____

Date _____

Instructor's Final Checklist

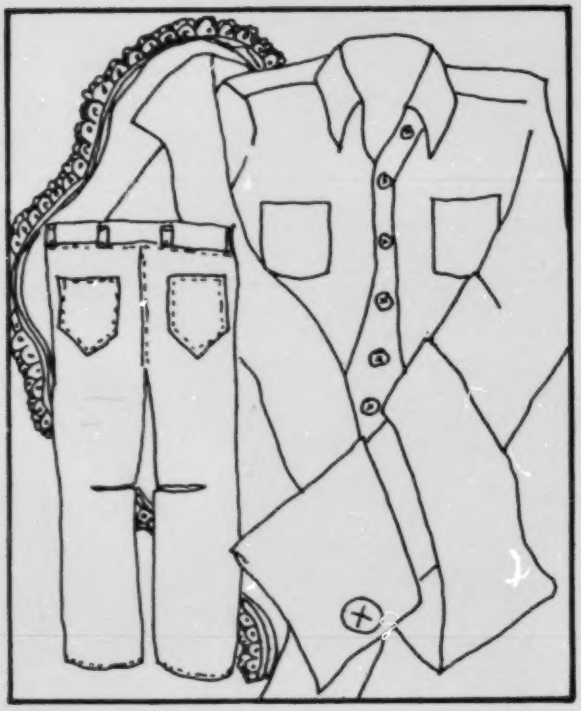
Check the student's performance in the following elements of using special attachments (zipper foot).

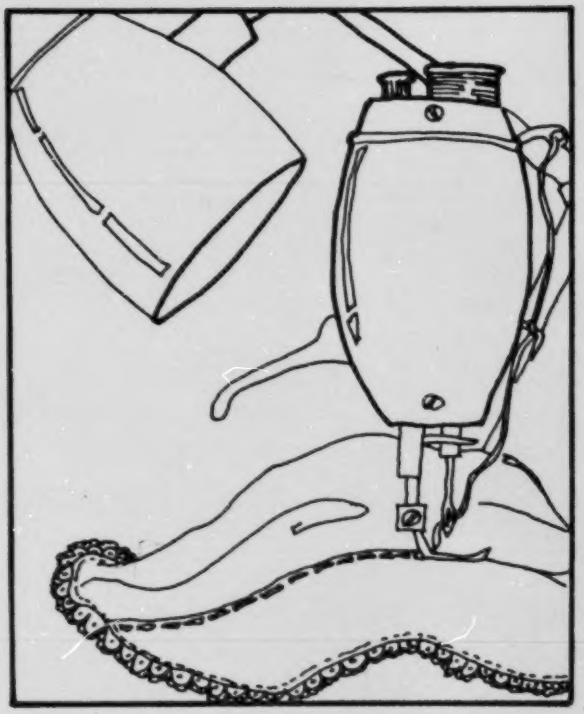
Place an X in the appropriate box indicating not accomplished, partially accomplished, or fully accomplished. If, because of special circumstances, the item was impossible to complete, place an X in the "Not Applicable" box.

Performance Level: All items must receive a rating of FULLY ACCOMPLISHED (or Not Applicable). If any items are rated Not Accomplished or Partially Accomplished, the student and instructor will discuss this and decide which learning activities must be repeated.

	Student Performance			
	Not Applicable	Not Accomplished	Partially Accomplished	Fully Accomplished
The student:				
a. Attached the zipper foot properly.	( )	( )	( )	( )
b. Covered the zipper with the material as specified.	( )	( )	( )	( )
c. Constructed the zipper without puckers.	( )	( )	( )	( )
d. Stitched alongside the zipper edge with a straight seam.	( )	( )	( )	( )

hemming, shirring, binding





USING SPECIAL ATTACHMENTS
(Hemming, Shirring, and Binding)

INTRODUCTION

Special attachments which are not a part of the industrial sewing machine can speed up production. In this module you will learn about using hemming, shirring, and binding attachments.

DIRECTIONS

Read the Objective. If you think you can accomplish this Objective now, turn to the Check-Out Activity and follow the instructions.

If you feel you are not able to accomplish this Objective now, look at the Learning Activities. Begin the Learning Activities and as soon as you feel you are ready, turn to the Check-Out Activity and follow the instructions.

OBJECTIVE

Given a single needle lockstitch machine, screwdriver, cloth, snips, and an assortment of attachments, make samples using the hemming, shirring, and binding attachments.

LEARNING ACTIVITIES

1. READ Student Information, HEMMING, SHIRRING, AND BINDING ATTACHMENTS.
2. VIEW a teacher demonstration on the use of the various attachments.
3. COMPLETE Student Self-Check, HEMMING, SHIRRING, AND BINDING ATTACHMENTS.
4. TURN to the Check-Out Activity and follow the instructions.

STUDENT INFORMATION

Hemming, Shirring, And Binding Attachments

Hemming Attachment

One type of hemming attachment is the folder, which is designed to fold inside the unfinished edge.

The size of the folder attachment used depends on the width of the desired hem. Figure 10 is a double-fold spring foot hemmer. The spring at the mouth allows seams and thick pieces of cloth to move through easily. In addition, folders aid in maintaining a uniform hem width.

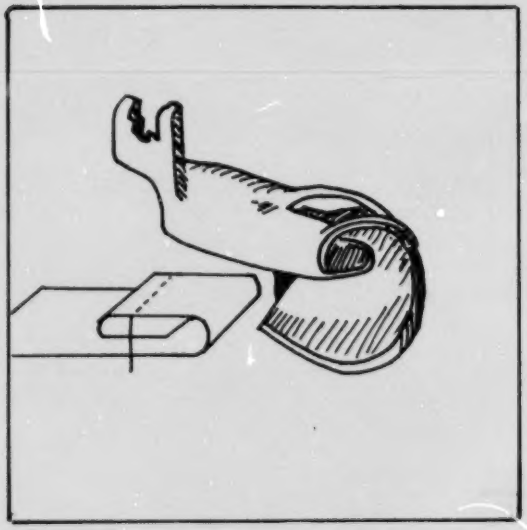


Figure 10

Shirring Attachment

The shirring attachment is designed to be used on a single needle lockstitch machine. The shirring foot gathers the material while the stitch holds the material taut. A shirring foot is shown in Figure 11.

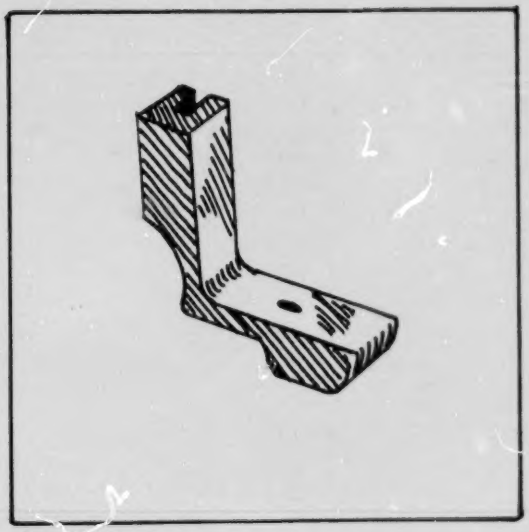


Figure 11

Binding Attachment

The raw edge binder set is used for sewing tapes and braids on many different articles. The precut binding which comes on large rolls is fed through the folder and stitched to the fabric. An example of this attachment is shown in Figure 12.

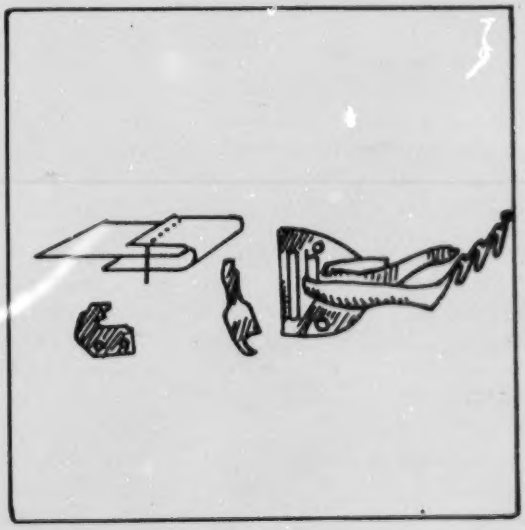


Figure 12

STUDENT SELF-CHECK

Hemming, Shirring, And Binding Attachments

Write the answers to the following statements on a separate sheet of paper.

1. The _____ is a hemming attachment which helps the operator maintain a uniform hem width.

2. The _____ foot gathers fabric while the stitch holds the material taut.

3. The raw edge binder set is used for sewing _____ and _____ on different types of articles.

CHECK-OUT ACTIVITY

The statement below explains the activity you must complete in order to finish this module. After you go through the activity, your instructor will rate your performance using the Instructor's Final Checklist, USING SPECIAL ATTACHMENTS (Hemming, Shirring, and Binding).

Your instructor will provide you with a single needle lockstitch machine, screwdriver, cloth, snips, and an assortment of attachments. Make samples using the hemming, shirring, and binding attachments.

Student _____

Date _____

Instructor's Final Checklist

Check the student's performance in the following elements of using special attachments (hemming, shirring, and binding).

Place an X in the appropriate box indicating not accomplished, partially accomplished, or fully accomplished. If, because of special circumstances, the item was impossible to complete, place an X in the "Not Applicable" box.

Performance Level: All items must receive a rating of FULLY ACCOMPLISHED (or Not Applicable). If any items are rated Not Accomplished or Partially Accomplished, the student and instructor will discuss this and decide which learning activities must be repeated.

	Student Performance			
	Not Applicable	Not Accomplished	Partially Accomplished	Fully Accomplished
The student used the following attachments:				
a. Hemming				
1. Hem was uniform in width.	( )	( )	( )	( )
b. Shirrring				
1. Gathers were even.	( )	( )	( )	( )
c. Binding				
1. Binding was uniform in width from seam edge.	( )	( )	( )	( )
2. Fabric was free of wrinkles.	( )	( )	( )	( )